

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)



(PCT Article 36 and Rule 70)

REC'D 04 AUG 2005

Applicant's or agent's file reference KC-PCT-0201	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/KR2004/000800	International filing date(day/month/year) 07 APRIL 2004 (07.04.2004)	Priority date (day/month/year) 17 APRIL 2003 (17.04.2003)
International Patent Classification (IPC) or national classification and IPC IPC7 B60J 3/00		
Applicant LEE, Jae Woo		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).
- This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 04 NOVEMBER 2004 (04.11.2004)	Date of completion of this report 28 JULY 2005 (28.07.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer LEE, Dong Kuk Telephone No. 82-42-481-5427 

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/000800

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☒ This report is based on translations from the original language into the following language English, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☒ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished

- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____

- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____

- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____

- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-11	YES
	Claims		NO
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: KR 20-0280292 Y1 (LEE, JAE WOO).

D2: KR 20-0299069 Y1 (LEE, JAE WOO).

D3: JP 7-242121 A (NEOX LAB: KK).

D4: US 5,787,956 A (CHEN: ING-WEN).

1. Novelty

Claim 1 relates to a sunshield assembly comprising a mount, a deployable and retractable sliding unit including a connector member and a cover, wing members, a holder for fixing the cover, and a locking clip. Said wing members are characterized by having a triangular steel liner narrowing toward an outer end thereof, and a coating layer consisting of a paper sheet and a transparent film.

D1-D4 relate to sunshield assemblies. Each of D1 and D2 has a deployable and retractable sliding unit (25, 20 respectively) and wing members (38, 5 respectively), but neither of the wing members of D1 and D2 has a triangular steel liner narrowing toward an outer end thereof, and a locking clip. D3 and D4 do not have a sliding unit, wing members having a triangular steel liner narrowing toward an outer, a locking clip, etc.

Therefore, claim 1 is novel over the available prior art, and the dependent claims 2 to 11 are also novel (Article 33(2) PCT).

(Continued on Supplemental Sheet.)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

2. Inventive Step

Claim 1 is different from D1-D4 in that the sunshield assembly of claim 1 comprises wing members characterized by having a triangular steel liner narrowing toward an outer end thereof. Said triangular steel liner is a solution to the problem posed by D1-D2 in that the wing members are able to be smoothly slid relative to one another by that, and be continuously maintained in a stable and uniform state without causing any deformation or drooping thereof even under a hot solar radiation environment. Neither of D3-D4 teaches or suggests wing members having a triangular steel liner. Accordingly, it is not considered to be obvious to a person skilled in the art to derive said wing members having a triangular steel liner from D1-D2.

Therefore, claim 1 is considered to involve an inventive step, and the dependent claims 2 to 11 are also considered to involve an inventive step (Article 33(3) PCT).

2. Industrial Applicability

Claims 1-11, relating to a sunshield assembly of an automotive vehicle, are considered to be industrially applicable (Article 33(4) PCT).